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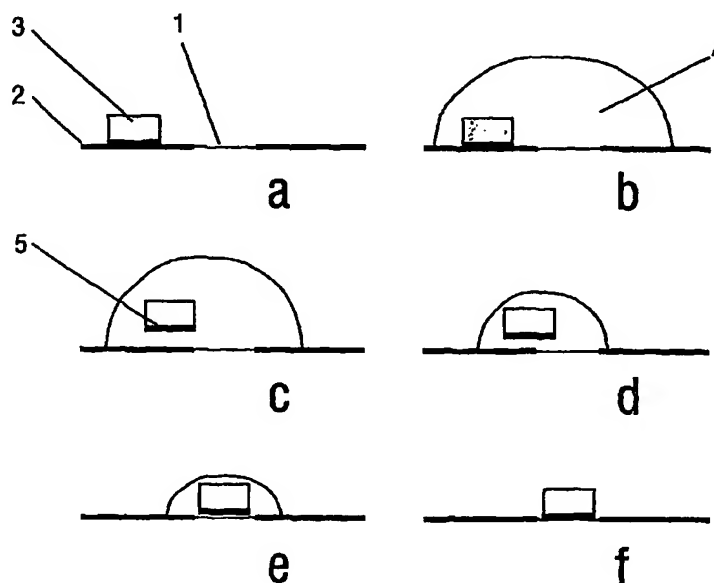
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(54) Title: **MANIPULATION OF MICROMETER-SIZED ELECTRONIC OBJECTS WITH LIQUID DROPLETS**



(57) Abstract: A system for manipulating a small object (3) comprising a substrate to receive the small object (3), a liquid droplet (4), which carries the small object (3) on the substrate, and a pre-treated surface structure of the substrate in the vicinity (1,2) of the placement position (1) of the small object (3). The small objects (3) like silicon dies in the range from 100 down to 1 micrometer are fine-placed by an evaporating droplet (4). The dies will serve as active electronic elements in large-area displays and other applications.



SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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## A. CLASSIFICATION OF SUBJECT MATTER

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## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, INSPEC

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	JIE LIU ET AL: "Controlled deposition of individual single-walled carbon nanotubes on chemically functionalized templates" CHEMICAL PHYSICS LETTERS ELSEVIER NETHERLANDS, vol. 303, no. 1-2, 2 April 1999 (1999-04-02), pages 125-129, XP002319483 ISSN: 0009-2614	1,2
Y	the whole document	3
Y	GB 2 373 095 A (* SEIKO EPSON CORPORATION) 11 September 2002 (2002-09-11) paragraph '0030!	3
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	NAGAHARA L A ET AL: "Directed placement of suspended carbon nanotubes for nanometer-scale assembly" APPLIED PHYSICS LETTERS AIP USA, vol. 80, no. 20, 20 May 2002 (2002-05-20), pages 3826-3828, XP002319484 ISSN: 0003-6951 the whole document	1,2
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